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(21) Application number: 00119962.9

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AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU
MC NL PT SE
Designated Extension States:
AL LT LV MK RO SI

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• George, Thomas Lamar, Jr.
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(30) Priority: 21.09.1999 US 155041

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(54) System and method for transporting IN/AIN signaling over an internet protocol (IP) network

(57) A system and method for transporting IN/AIN signaling (e.g., SS7 signaling) over an IP-based network using Stream Control Transmission Protocol (SCTP), wherein a peer-to-peer protocol adaptation (PPA) structure is provided at a signaling node. The PPA structure includes an interworking functionality between an MTP3 layer and the SCTP messaging, and operates to provide a symmetrical MTP2 adaptation interface therebetween. The PPA interface functionality facilitates the implementation of network management capabilities in-

cluded in the MTP3 layer such that the advantageous features of SS7 signaling are retained in the SCTP transport. The MTP2 adaptation interface functionality is processed locally with respect to the signaling node, rather than backhauling the associated signaling to an external node via an IP connection. The PPA structure may be provided at any signaling node operable to establish a virtual link across an IP connection such as, for example, a signaling gateway, an IP-compliant SCP or STP, et cetera.

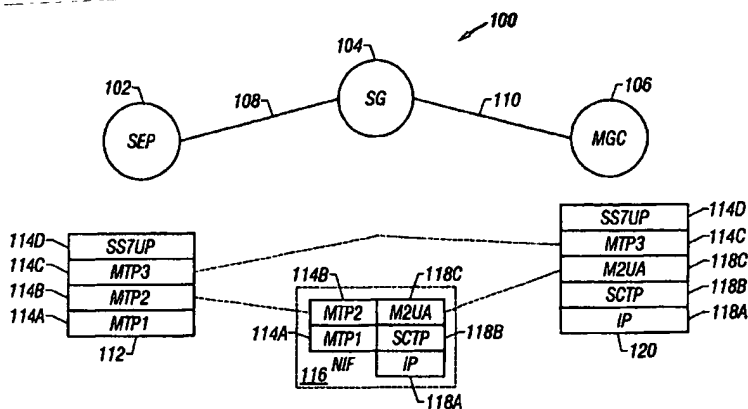


FIG. 1

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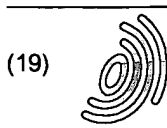
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EUROPEAN SEARCH REPORT

Application Number
EP 00 11 9962

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
A	<p>AUERBACH D BERG D: "SIGNALING BACKHAUL PROTOCOL"</p> <p>25 February 1999 (1999-02-25), XP002238943</p> <p>Retrieved from the Internet: <URL:http://www.ietf.org/proceedings/99nov/I-D/draft-ietf-sigtran-signaling-backhaul-00.txt> [retrieved on 2003-04-22]</p> <p>* the whole document *</p> <p>---</p>	1-52	H04Q3/00
A	<p>ONG L RYTNA I: "Architectural Framework for Signaling Transport"</p> <p>February 1999 (1999-02), XP002238917</p> <p>Retrieved from the Internet: <URL:http://www.ietf.org/proceedings/99mar/I-D/draft-ietf-sigtran-framework-arch-00.txt> [retrieved on 2003-04-17]</p> <p>* page 8 - page 12 *</p> <p>-----</p>	1-52	<p>TECHNICAL FIELDS SEARCHED (Int.Cl.7)</p> <p>H04Q</p>
The present search report has been drawn up for all claims			
Place of search	Date of completion of the search	Examiner	
THE HAGUE	23 April 2003	Chimet, D	
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone</p> <p>Y : particularly relevant if combined with another document of the same category</p> <p>A : technological background</p> <p>O : non-written disclosure</p> <p>P : intermediate document</p>		<p>T : theory or principle underlying the invention</p> <p>E : earlier patent document, but published on, or after the filing date</p> <p>D : document cited in the application</p> <p>L : document cited for other reasons</p> <p>& : member of the same patent family, corresponding document</p>	

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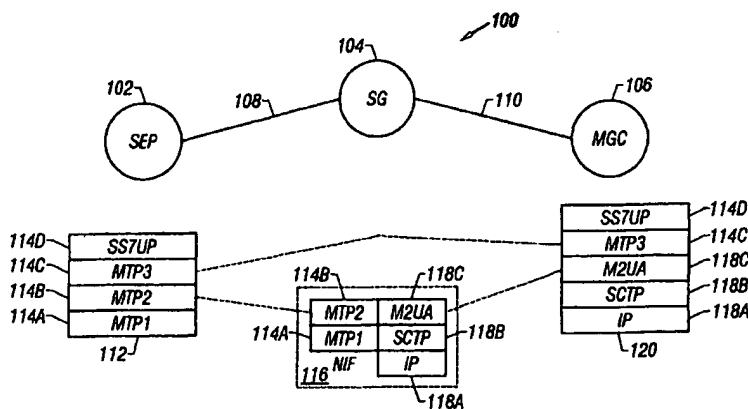


FIG. 1

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